

24-BR-6010
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Boardman et al.

Serial No.: 09/735,009

Filed: December 12, 2000

For: SYSTEM AND METHODS OF
PRODUCING HYDROGEN USING A
NUCLEAR REACTOR

Art Unit: 3641

Examiner: R. Palabrica

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AMENDMENT AFTER FINAL OFFICE ACTION (37 C.F.R. § 1.116)Commissioner for Patents
Washington, D.C. 20231

Applicant respectfully requests consideration and entry of the following amendment
submitted in response to the Office Action dated August 14, 2002, and made final.

IN THE CLAIMS

1. (twice amended) A system for generating hydrogen comprising:
 feed water;
 a liquid metal nuclear reactor having a non-radioactive secondary heat loop;
 a steam generator connected to said secondary heat loop, said steam generator capable of
 raising the temperature of said feed water;
 a high temperature water cracking system, said feed water coupled to said water cracking
 system by a feed water input line; and
 a topping heater, said topping heater capable of raising the temperature of said feed
 water, said feed water input line coupled in flow communication with said steam generator, said